

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## SECTION 1: Identification

### 1.1. Product Identifier

**Trade Name or Designation** VeriSpec<sup>®</sup> Arsenic (As) Standard for AAS 1000 ppm in 2% HCl  
Manufactured and Tested in an ISO 17025/ISO 17034 Accredited Facility

**Product Number** RV010003

**Other Identifying Product Numbers** RV010003-100N, RV010003-500N

### 1.2. Recommended Use and Restrictions on Use

Calibration Standard

### 1.3. Details of the Supplier of the Safety Data Sheet

**Company** Ricca Chemical Company  
**Address** 412 West Fork Drive

Arlington, TX 76012 USA

**Telephone** 888-467-4222

### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300  
CHEMTREC (International) 1+ 703-527-3887

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## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the Substance or Mixture

Hazard Class	Category	Hazard Statements	Precautionary Statements
Corrosive to the Respiratory Tract	Corrosive		
Skin Corrosion / Irritation	Category 2	H315	P264,P280,P302+P352,P321, P332+P313,P362+P364
Serious Eye Damage / Eye Irritation	Category 2	H319	P264,P280,P305+P351+P338, P337+P313

### 2.2. GHS Label Elements

#### Pictograms:



Signal Word: **Warning**

#### Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

Hazard Number	Hazard Statement
H315	Causes skin irritation
H319	Causes serious eye irritation
	Corrosive to the respiratory tract

#### Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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## Prevention

Precautionary Number	Precautionary Statement
P264	Wash hands, arms, and face thoroughly after handling.
P280	Wear protective gloves and eye protection.

## Response

Precautionary Number	Precautionary Statement
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice or attention.
P337+P313	If eye irritation persists: Get medical advice or attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

## 2.3. Hazards not Otherwise Classified

No other hazards identified.

## 2.4. Ingredients of Unknown Acute Toxicity

This product does not contain any ingredients of unknown acute toxicity.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Mixture

Chemical Name (IUPAC)	Common Name and Synonyms	CAS Number	Weight%
water	Water	7732-18-5	97.76
chlorane	Hydrochloric Acid; Muriatic acid	7647-01-0	2.00
trichloroarsane	Arsenic (III) Chloride	7784-34-1	0.24

## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary Measures

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion:** No action required to be taken. If necessary, dilute with water.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** IF ON SKIN: Wash with plenty of water.



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### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes skin irritation

### 4.3. Immediate Medical Attention or Special Treatment Needed

Not expected to require special treatment.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

Not considered to be a fire or explosion hazard.

### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Not considered to be a fire or explosion hazard.

### 5.3. Special Protective Equipment and Precautions for Firefighters

Wear protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

## SECTION 7: Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

Protect from freezing and physical damage.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Exposure Limits

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### U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

Chemical Name	CAS Number	Exposure Limit
Arsenic (III) Chloride	7784-34-1	"10 µg/m <sup>3</sup> TWA (as As)" As Arsenic, inorganic compounds [RR-00065-7]

### U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

Chemical Name	CAS Number	Exposure Limit
Hydrochloric Acid	7647-01-0	5 ppm Ceiling; 7 mg/m <sup>3</sup> Ceiling

### U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

### U.S. OSHA - Specifically Regulated Chemicals

Chemical Name	CAS Number	Exposure Limit
Arsenic (III) Chloride	7784-34-1	"10 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1018; except Arsine, as As); 5 µg/m <sup>3</sup> Action Level (as As)" As Inorganic arsenic compounds [RR-00065-7]

### ACGIH - Threshold Limit Values - Ceilings (TLV-C)

Chemical Name	CAS Number	Exposure Limit
Hydrochloric Acid	7647-01-0	2 ppm Ceiling

### ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

No limits found.

### ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

Chemical Name	CAS Number	Exposure Limit
Arsenic (III) Chloride	7784-34-1	"0.01 mg/m <sup>3</sup> TWA (as As)" As Arsenic inorganic compounds [RR-00065-7]

## 8.2. Engineering Controls

No specific controls are needed.

## 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** Wear protective gloves and eye protection.

**Skin Protection:** Wear protective gloves and eye protection.

**Eye Protection:** Wear protective gloves and eye protection.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Color:</b>	Data not available.
<b>Odor:</b>	Data not available.
<b>Odor Threshold:</b>	Data not available.
<b>Melting/Freezing Point:</b>	Data not available.
<b>Boiling Point/Range:</b>	Data not available.
<b>Flammability:</b>	Data not available.
<b>Flammability/Explosive Limits:</b>	Data not available.
<b>Flash Point:</b>	Not flammable
<b>Auto-Ignition Temperature:</b>	Data not available.
<b>Decomposition Temperature:</b>	Data not available.
<b>pH:</b>	Data not available.
<b>Kinematic Viscosity:</b>	Data not available.
<b>Solubility:</b>	Data not available.
<b>Vapor Pressure:</b>	Data not available.
<b>Evaporation Rate:</b>	Data not available.
<b>Relative Density:</b>	1.01
<b>Relative Vapor Density:</b>	Data not available.
<b>Particle Characteristics:</b>	Data not available.
<b>Partition Coefficient n-octanol/water, log</b>	Data not available.

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Protect from freezing and physical damage.

### 10.4. Hazardous Decomposition Products

None identified.

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## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity - Oral Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Hydrochloric Acid	7647-01-0	Oral LD50 Rat 700 mg/kg (Source: Canada_WHMIS)
Arsenic (III) Chloride	7784-34-1	Oral LD50 Acute Toxicity Estimate 100 mg/kg (Source: ECHA)

#### Acute Toxicity - Dermal Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Hydrochloric Acid	7647-01-0	Dermal LD50 Rabbit >5010 mg/kg (Source: JAPAN_GHS)

#### Acute Toxicity - Inhalation Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Hydrochloric Acid	7647-01-0	Inhalation LC50 Acute Toxicity Estimate 0.5 mg/L 4 h (Source: ECHA)
Arsenic (III) Chloride	7784-34-1	Inhalation LC50 Acute Toxicity Estimate 0.5 mg/L 4 h (Source: ECHA)

### 11.2 Carcinogenicity:

#### International Agency for Research on Cancer (IARC)

Chemical Name	CAS Number	Classification
Hydrochloric Acid	7647-01-0	Group 1 (Carcinogenic to Humans) - Monograph 100F [2012]; Monograph 54 [1992] As Acid mists, strong inorganic
Arsenic (III) Chloride	7784-34-1	Group 1 (Carcinogenic to Humans) - Monograph 100C [2012] As Arsenic inorganic compounds; Supplement 7 [1987]; Monograph 23 [1980] As Arsenic compounds

#### National Toxicology Program (NTP)

Chemical Name	CAS Number	Classification
Arsenic (III) Chloride	7784-34-1	"Known Human Carcinogen" As Arsenic, inorganic compounds [RR-00065-7]

#### U.S. OSHA specifically regulated carcinogens

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Chemical Name	CAS Number	Classification
Arsenic (III) Chloride	7784-34-1	"see 29 CFR 1910.1018 (except Arsine)" As Inorganic arsenic compounds [RR-00065-7]

## 11.3 Additional Toxicology Information:

Causes skin irritation. Causes serious eye irritation. Corrosive to the respiratory tract.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

Chemical Name	CAS Number	Species	Exposure	Toxicity
	No data found.	None	None	

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.



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## **SECTION 14: Transportation Information**

### **14.1 Transportation by Land - Department of Transportation (DOT, United States of America)**

Not regulated according to DOT regulations.

### **14.2 Transportation by Air - International Air Transport Association (IATA)**

Not regulated according to IATA Dangerous Goods Regulations.

### **14.3 Transportation of Dangerous Goods (TDG, Canada)**

Not regulated according to TDG regulations.

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## SECTION 15: Regulatory Information

### 15.01. Occupational Safety and Health Administration (OSHA) Hazards

Chemical Name	CAS Number	Regulatory Information
Arsenic (III) Chloride	7784-34-1	"10 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1018, except Arsine, as As); 5 µg/m <sup>3</sup> Action Level (See 29 CFR 1910.1018, except Arsine, as As)" As Inorganic arsenic compounds [RR-00065-7]

### 15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Chemical Name	CAS Number	RQ	TPQ
Hydrochloric Acid	7647-01-0	500 lb TPQ (gas only)	5000 lb EPCRA RQ (gas only)
Arsenic (III) Chloride	7784-34-1	500 lb TPQ	1 lb EPCRA RQ

### 15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Chemical Name	CAS Number	Regulatory Information
Hydrochloric Acid	7647-01-0	5000 lb final RQ; 2270 kg final RQ
Arsenic (III) Chloride	7784-34-1	1 lb final RQ; 0.454 kg final RQ

### 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

Chemical Name	CAS Number	List	Regulatory Information
Hydrochloric Acid	7647-01-0	Emission Reporting	1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)
Arsenic (III) Chloride	7784-34-1	Emission Reporting	"0.1 % de minimis concentration (includes any unique chemical substance that contains Arsenic as part of that chemical's infrastructure, listed under Chemical Category N020)" As Arsenic, inorganic compounds [RR-00065-7]

### 15.05. Massachusetts Right-to-Know Substance List

Chemical Name	CAS Number	Regulatory Information
Hydrochloric Acid	7647-01-0	Extraordinarily hazardous
Arsenic (III) Chloride	7784-34-1	Extraordinarily hazardous

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## 15.06. Pennsylvania Right-to-Know Hazardous Substances

Chemical Name	CAS Number	Regulatory Information
Hydrochloric Acid	7647-01-0	Environmental hazard
Arsenic (III) Chloride	7784-34-1	Environmental hazard

## 15.07. New Jersey Worker and Community Right-to-Know Components

Chemical Name	CAS Number	Regulatory Information
Hydrochloric Acid	7647-01-0	sn 1012
Arsenic (III) Chloride	7784-34-1	sn 0159

## 15.08. California Proposition 65

Chemical Name	CAS Number	Regulatory Information
Arsenic (III) Chloride	7784-34-1	"carcinogen, 2/27/1987" As Arsenic, inorganic compounds [RR-00065-7]
Arsenic (III) Chloride	7784-34-1	"0.06 µg/day NSRL (inhalation, listed under Arsenic); 10 µg/day NSRL (except inhalation, listed under Arsenic)" As Arsenic, inorganic compounds [RR-00065-7]

## 15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Chemical Name	CAS Number	List	Status
Hydrochloric Acid	7647-01-0	DSL	Present
Water	7732-18-5	DSL	Present
Arsenic (III) Chloride	7784-34-1	DSL	Present

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

Chemical Name	CAS Number	Status
Hydrochloric Acid	7647-01-0	Present (ACTIVE)
Water	7732-18-5	Present [XU] (ACTIVE)
Arsenic (III) Chloride	7784-34-1	Present (ACTIVE)

## 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Chemical Name	CAS Number	List	Number
Hydrochloric Acid	7647-01-0	EINECS	231-595-7
Water	7732-18-5	EINECS	231-791-2
Arsenic (III) Chloride	7784-34-1	EINECS	232-059-5

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## 15.12. China - Inventory of Existing chemical Substances (IECSC)

Chemical Name	CAS Number	Status
Hydrochloric Acid	7647-01-0	Present [37053]
Water	7732-18-5	Present [32224]

## 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

Chemical Name	CAS Number	List	Status
Hydrochloric Acid	7647-01-0	Annex 1	Present [KE-20189]
Water	7732-18-5	Annex 1	Present [KE-35400]
Arsenic (III) Chloride	7784-34-1	Annex 1	Present [KE-01943]
Arsenic (III) Chloride	7784-34-1	Annex 3	"Present (97-1-119)" As Arsenic compounds [RR-00625-7]

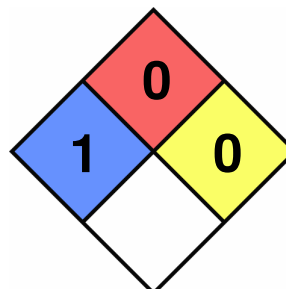
## 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

Chemical Name	CAS Number	MITI No.
Hydrochloric Acid	7647-01-0	(1)-215
Water	7732-18-5	- (listed on Japanese Pharmacopoeia 8th Edition)
Arsenic (III) Chloride	7784-34-1	(1)-582

## SECTION 16: Other Information

### 16.1 National Fire Protection Associate (NFPA) Rating

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 0  
**Special Hazard:**



### 16.2 Document Revision

**Last Revision Date:**  
 2026-05-06

## DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.